

### Abstract

An electric power steering system causing an electric motor 6 to generate a steering assist force according to a steering torque, includes: a torque sensor 3 for detecting the steering torque; phase compensation means 15a, 15b acting when a target control value of the electric motor 6 is generated based on an output from the torque sensor 3; and means 15c for varying the characteristic of the phase compensation means depending upon whether a steering mode is steer with driving or steer without driving, whereby a loadless steering feeling due to phase lag is not encountered during driving even if vibrations during steer without driving are suppressed by a phase compensator.